

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-045097

(43)Date of publication of application : 16.02.1999

(51)Int.Cl.

G10L 3/00

G10L 5/06

(21)Application number : 09-201685

(71)Applicant : NEC CORP

(22)Date of filing : 28.07.1997

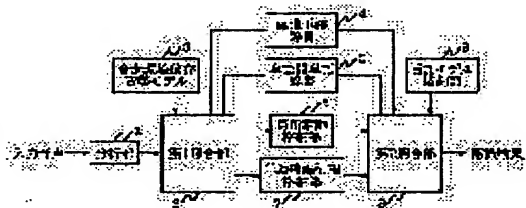
(72)Inventor : ISOTANI RYOSUKE

(54) CONTINUOUS VOICE RECOGNITION SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To perform large vocabulary continuous voice recognizing at high speed using a phoneme environment depending acoustic model.

SOLUTION: A recognition word dictionary 4 describes an acoustic model group decided without depending on words of before and after about each word of a recognition object vocabulary as a recognition word. An inter-word dictionary 5 describes an acoustic model group used depending on words of before and after in a word border as inter-word. A first collating section 2 collates a time series of a feature parameter obtained by analyzing an input voice with the recognition word and the inter-word, and a word corresponding to a score when it is assumed that the group reaches a terminal of a word in each time of a time series of the feature parameter is outputted as word terminal information 7. A second collating section 8 refers to this word terminal information, collates again a time series of the feature parameter with the recognition word and the inter-word, and a word corresponding to a prescribed score is outputted with a mode decided by a system.



LEGAL STATUS

[Date of request for examination] 28.07.1997

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3042455

[Date of registration] 10.03.2000

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right] 10.03.2003

(4)

[illegible]

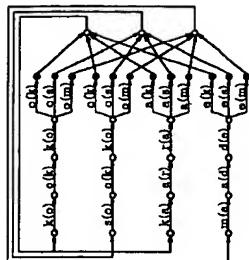
【0022】図2の例に示した観測単路群数4および単路間単路群数5の領域内は、それぞれ図3、図4に示す。単路群数は、観測対象要素中の各単路に対し、表記、その単路を構成する音響モデル系列の情報に加工、始端、終端のカテゴリが格納されている。単路間群数には、先行単路の終端カテゴリと後続単路の始端カテゴリの組合せに対し、それらの単路間に用いられる音響モデル系列の情報が記述されている。

【0023】図2には全体として照合すべき音響モデル数の数は21で、図7に示した従来例の場合の24に比べて削減されている。この例は4単路からなる階層化した例であるため観測はそれほど大きくないが、大規模な場合（例えば後述の観測群数は50）になると、削減効果は大き

- 1 分析部
- 2 第1照合部
- 3 音楽環境保存部
- 4 認識部

(9)

【图7】



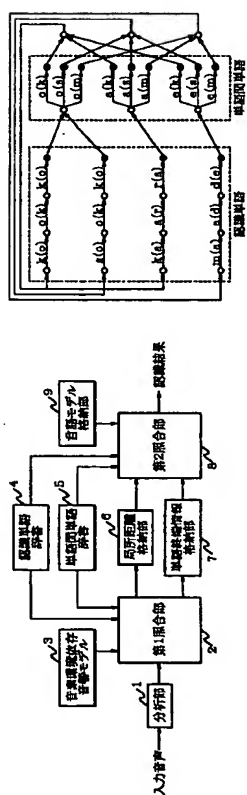
(5)

8

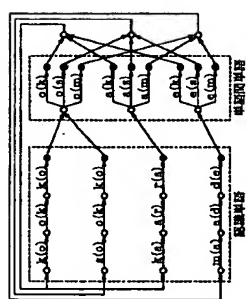
8 第2照合部

9 言語モデル格納部

【图1】



【图2】



【3】

番号	校記	音響モデル列	始結	終結
1	ニ	k(o) o(k) k(o)	k	o
2	そニ	s(o) o(k) k(o)	s	o
3	か5	k(a) s(r) r(a)	k	a
4	チ	m(a) s(d) d(o)	m	a

【图4】

番号	先行陣地番号	設置単位の出張	普通モビ列
1	0	k	o (k)
2	0	a	o (a)
3	0	m	o (m)
4	a	k	s (k)
5	a	k	s (a)
6	a	m	s (m)
7	a	k	e (k)
8	a	a	o (a)
9	0	m	e (m)

【图5】

番号	表記	音価モデル列	始端	終端
1	ニ	(k) o (k)	ko	ko
2	ネ	(g) o (k)	eo	ko
3	カ	(k) a (r)	ka	ra
4	キ	(m) a (d)	ma	da

[6]

生年	氏名	居村	別荘地	別荘地	別荘地
1	ko	ko	ko	ko	ko
2	ko	ko	ko	ko	ko
3	ko	ko	ko	ko	ko
4	ko	ko	ko	ko	ko
5	ko	ko	ko	ko	ko
6	ko	ko	ko	ko	ko
7	ko	ko	ko	ko	ko
8	ko	ko	ko	ko	ko
9	ko	ko	ko	ko	ko
10	ko	ko	ko	ko	ko
11	ko	ko	ko	ko	ko
12	ko	ko	ko	ko	ko

[8]

